

## Abstract

### Duplexer with a Low Overall Height

5           It is proposed that a balun implemented in LTCC technology shall be incorporated into  
the microwave ceramic body of a duplexer in such a way that the total overall height of the  
duplexer is not increased. To do so, the height of the ceramic body in the range of the RX filter is  
reduced to an area corresponding to the size of the LTCC balun. A compact component is thus  
obtained with no change in the properties of the Tx filter; this component can supply a  
10   symmetrical output signal without any increase in volume for the RX path.

Significant figure: 2

15           Figure 1 – Stand der Technik = state of the art